

ABSTRACT OF THE DISCLOSURE

An adaptive pressure control method for
synchronous downshifts in an automatic transmission that
5 uses pressure actuated friction elements. The method uses
characteristic parameters that determine downshift quality
for both power-on downshifts and power-off downshifts.
Selected measured variables are monitored to detect changes
in the parameters. Adjustments for the friction elements
10 are made in response to changes in the measured variables.